

**REPORT OF ACTIVITIES
OF THE
DEPARTMENT OF WATER RESOURCES**

By

**Gary B. Bardini, Chief,
Division of Flood Management
Department of Water Resources
California Natural Resources Agency
State of California***

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FUNCTIONAL AREA 1 FLOOD EMERGENCY RESPONSE

The Flood Emergency Response functional area includes work to better prepare for, respond to, and recover from flood emergencies. A program for flood emergency response is a necessary part of flood management because California will always face flood emergencies, even when system improvements reduce the frequency of flooding. Program activities include inspection and assessment of flood projects' integrity; reservoir operations and river forecasting; flood data collection, management, and dissemination; precipitation and runoff forecasting; Delta flood preparedness, response, and recovery; and statewide flood emergency response functions.

REAL-TIME FLOOD CONDITIONS, STATUS, & WARNING

The purpose of the Real Time Flood Conditions, Status, and Warning element is to provide information needed to manage floods as they are occurring. This element supports flood operations by 1) inspecting, documenting, and assessing the integrity of the Sacramento and San Joaquin Flood Control Project levees, 2) storing and managing information so that it is accessible to flood managers and the general public, 3) providing emergency flood information and warnings based upon existing and forecasted conditions and field reports, and 4) developing information management tools to support emergency operations.

Library of Models: To preserve the State's investments in model development and application, DWR has undertaken building a Library of Models (LOM), a web based electronic repository to archive, manage and disseminate widely used models for Flood and Water management in the Central Valley and within the state. The flexible library infrastructure and its web based operation will provide better access to the most recent models and data for the greater engineering community. Hence, duplication in model developments for future projects regarding Flood management and Water resources development in major River basins can be avoided. The Library will primarily host a variety of complete engineering models, associated data, tools and products (CVHS products etc.) including hydraulic and hydrologic models created for various FLOODSAFE Programs. Following established protocols and procedures a user or modeler will be able to download models and upload new or updated models into the Library. The uploaded models will undergo a review process for final acceptance to be housed in the LOM. The Library of Models is designed to be hosted in CDEC website as part of the Flood ER Information System and will essentially serve as a comprehensive toolbox including models, IT tools and data for Emergency Response during Flood Events. DWR HAFOO is currently conducting series of workshops to facilitate design of a pilot Library of Models and developing protocols and procedures for its operation.

CLIMATE DATA COLLECTION & PRECIPITATION/RUNOFF FORECASTING

This Element supports Flood Emergency Response by providing information on current and forecasted water conditions, and by providing meteorological and climate information. Additionally, this Element includes evaluating and improving the data collection and exchange network and forecasting models, providing water supply and watershed runoff information and forecasting, and the development of a new generation of forecasting and data collection tools to improve the quality, timeliness, and length of watershed and river forecasts. Real-time data, its timely availability, and quantities and quality are all critical to improving forecasting quality and timeliness.

Water Conditions: As of October 31, 2010, statewide hydrologic conditions were as follows: precipitation, 280 percent of average to date; runoff, 170 percent of average to date; and reservoir storage, 105 percent of average for the date. Sacramento River unimpaired runoff observed through October 31, 2010 was about 0.7 million acre-feet (MAF), which is about 126 percent of average. For comparison, on October 31, 2009, the observed Sacramento River unimpaired runoff through that date was about 0.5 MAF, or about 100 percent of average.

October was much wetter than normal for most of Northern California. An unusually strong, early-season storm, pushed monthly rainfall totals for many locations to well above average during the second half of the month. On November 1, the Northern Sierra 8-Station Precipitation Index Water Year total was 7.6 inches, which is about 253 percent of the seasonal average to date and 15 percent of an average water year (50.0 inches). Last year on November 1, the seasonal total for the 8-Stations was 4.7 inches, or about 156 percent of average for the date.

On November 1, the San Joaquin 5-Station Precipitation Index Water Year total was 7.0 inches, which is about 350 percent of the seasonal average to date and 17 percent of an average water year (40.8 inches). Last year on October 31, the seasonal total for the 5-Stations to date was 5.8 inches, or about 290 percent of average for the date.

Selected Cities Precipitation Accumulation as of 10/31/2010 (National Weather Service Water Year: July through June)					
City	Jul 1 to Date 2010 - 2010 (in inches)	% Avg	Jul 1 to Date 2009 - 2009 (in inches)	% Avg	% Avg "Water Year" Jul 1 to Jun 30 2010 - 2011
Eureka	5.84	155	3.06	81	15
Redding	5.13	175	2.11	72	15
Sacramento	1.44	106	3.38	249	8
San Francisco	0.85	63	3.23	241	4
Fresno	0.44	47	1.40	151	4
Bakersfield	0.59	111	0.09	17	9
Los Angeles	1.56	197	1.31	166	12
San Diego	2.23	290	0.00	0	21

Key Reservoir Storage (1,000 AF) as of 10/31/2010								
Reservoir	River	Storage	Avg Storage	% Average	Capacity	% Capacity	Flood Control Encroachment	Total Space Available
Trinity Lake	Trinity	1,495	1,614	93	2,448	61	---	953
Shasta Lake	Sacramento	3,272	2,755	119	4,552	72	-619	1,280
Lake Oroville	Feather	1,702	2,164	79	3,538	48	-1,450	1,836
New Bullards Bar Res	Yuba	619	533	116	966	64	-177	347
Folsom Lake	American	602	496	121	977	62	-122	375
New Melones Res	Stanislaus	1,281	1,302	98	2,420	53	-689	1,139
Don Pedro Res	Tuolumne	1,643	1,297	127	2,030	81	-47	387
Lake McClure	Merced	649	451	144	1,025	63	-26	376
Millerton Lake	San Joaquin	210	189	111	520	40	-220	310
Pine Flat Res	Kings	351	350	100	1,000	35	-483	649
Isabella	Kern	157	159	99	568	28	-13	411
San Luis Res	(Offstream)	911	1,105	82	2,039	45	---	1,128

The latest National Weather Service Climate Prediction Center (CPC) long-range, 1-month weather precipitation outlook for November 2010, issued October 31, 2010, suggests no tendency for above or below average rainfall for Northern and Central California, and below average rainfall for the southern portion of the State.

Information on current conditions can be accessed through the California Data Exchange Center (CDEC) at the following locations:

Reservoirs: <http://cdec.water.ca.gov/reservoir.html>

Individual Reservoirs: http://cdec.water.ca.gov/reservoir_map.html

Precipitation: http://cdec.water.ca.gov/snow_rain.html

Snow: <http://cdec.water.ca.gov/snow/current/snow/>

Snowmelt & Seasonal Volume Runoff Forecasting: Progress continued on the development of the various PRMS models. The upgrade of the existing PRMS Feather model has focused on the Lake Davis sub-catchment upgrade and modernization efforts. The Lake Davis model is fairly close to completion and testing will begin once the model is fully compiled. The Yuba PRMS model is nearing completion and compilation. We hope to fully test this model during the forthcoming water supply forecast season. All flow and climate data has been delivered to the USGS for the Merced PRMS effort. The data will go through a similar evaluation that the data for the Yuba went through and then the GIS layers will start being built.

Snow Surveys and Snow Course Maintenance: Efforts to clear large trees from helicopter landing zones near snow courses has continued. Each course must be handled differently mostly due to variation in jurisdiction. Each USFS Ranger district handles these requests slightly differently based on individual forest needs, property owners, and other environmental factors. Many LZs have been cleared with relatively little effort or paperwork while others are being held up for a multitude of reasons that include filing for valid permits, harvesting payments, land owner preference, and approval for access. In some cases, a resolution will not be made prior to the winter season setting in and desirable maintenance will have to be delayed until next summer. It is unclear how this may affect measurement of these courses during this upcoming season. Clearly if it is too dangerous to land a helicopter at the courses,

measurements will have to be skipped until it is safe to land there. Missing data can have negative effects on runoff forecasting accuracy.

Hydrologic Data Management: The Snow Surveys section continues to collect, review, Quality Control, and enter Full Natural Flow (FNF), precipitation, snow, and reservoir storage data for thousands of locations statewide on a daily basis. With this data staff continues to issue daily, monthly, and seasonal water condition reports on CDEC. Some early Fall snow fell in October but quickly melted once clear skies dominated the weather patterns. As of September 30, Water Year 2010 has come to a completion. Full Natural Flow data records are being collected to summarize Water Year 2010 preliminary totals. In early 2011 the USGS will publish the complete Water Year data records. At this point the preliminary Water Year FNF records will be compared to the final Water Year totals and a final Water Year 2010 FNF runoff value will be established for each of the major Central Valley rivers (as well as others) in California. Water Year 2011 began October 1, 2010.

Bulletin 120 and Water Supply Index Forecasts: The 56th Annual Meeting of the California Cooperative Snow Surveys Program was held October 13-15, 2010 in Bishop, CA. Members of the Hydrology Branch attended, presented, and lead the 56th Annual meeting of the Cooperating Agencies of the Snow Surveys Program. The agenda this year included a full day field instrumentation training session on Wednesday, October 13th, that featured instrumentation calibration demonstrations and best practices installations from various agencies that collect hydrometeorological data necessary for seasonal and flood runoff forecasting. The agenda on Thursday, October 14th, featured presentations by DWR that focused on FloodSAFE activities, Hydrology Branch work overviews, and presentations on improvements in seasonal and snow melt runoff forecasting, snow surveys and related summer field work, and the ongoing expansion of the Forecast-Coordinated Operations program. Guest speakers included State Climatologist Mike Anderson, Statistical Forecasting research by the University of Washington, snow measurement issues by the Norwegian Resources Agency, and advances in using satellite infrared imagery to help estimate snow pack properties by Jeff Dozier from UC Santa Barbara. This excellent meeting wrapped up on Friday, October 15th, with a moderated speaker forum focused on Permitting, Instrumentation, and Maintenance – Issues Associated with Access in the Sierra Nevada. The speaker discussion was moderated by David Rizzardo, Chief of the Snow Surveys Section, and included significant insight from members of the USFS, PG&E, Hetch Hetchy Water and Power, Southern California Edison, and the USACE. Roughly 80 people representing over a dozen cooperating agencies attended the meeting.

Hydro-Climate Analyses: Work continues on the University of California Task Orders for studies supporting climate change hydrology effort. A conference call is being organized to coordinate activities between NOAA's Earth Systems Research Lab (ESRL) and Scripps regarding atmospheric rivers studies. The Central Valley Flood Protection Plan Climate Change Technical Work Group is moving forward with coordinating next step efforts with the Central Valley Hydrology Study Phase II effort. An initial coordination meeting was held in the first part of November. Continued

collaboration will work through the State Climatologist. Coordination efforts between the Central Valley Hydrology Study Phase I and the Central Valley Floodplain Evaluation and Delineation (CVFED) Program have been started. Efforts will be made to ensure that the proper hydrologic products are developed for the CVFED efforts and CVFED will work to communicate specifics on the products needed. The State Climatologist will present a review of water year 2010 and water year 2011 outlook to the State Water Contractors on November 22nd.

Real-Time Data Collection Network: Soil moisture sensor installations are moving forward. The DWR/Scripps installations for the year are scheduled to be in the ground by mid November. NOAA ESRL installations at lower elevations will be completed sometime in December. Snow level radar installations for the Kings River and Merced River watersheds are scheduled to be completed by mid December 2010. Coordination between NOAA, DWR and Scripps continues as the 21st Century Extreme Precipitation Monitoring project moves forward.

RESERVOIR OPERATIONS & RIVER FORECASTING

This element supports Flood Emergency Response through a coordinated effort with various agencies' operating reservoirs in the system to enhance reservoir operations. The goal of coordinated operation of the reservoirs will be to reduce peak flood flows downstream of the reservoirs. Additionally, this Element supports Flood Emergency Response through river forecasting activities conducted in coordination with the National Weather Service River Forecast Center located at the Joint Operations Center in Sacramento. By conducting real-time and long-range hydrologic and watershed analyses, this Element provides accurate and timely runoff and river peak flow forecasts.

No new information

FLOOD OPERATIONS EMERGENCY RESPONSE

This element includes all preparation and planning to execute flood fights, deploy teams, provide training, and coordinate local response needs and federal assistance in the event of a flood. This includes maintaining the readiness of the Flood Operations Center and all the staff that may have to staff it in the event of an emergency and assuring local response efforts can be integrated into the State response system.

Golden Guardian: The Flood Operations Branch continues to support CalEMA in the planning and execution of the Golden Guardian Exercise coming up in May 2011. The exercise will be a three-day Full Scale Exercise based on a major central valley flood. Staff are continuing to work on exercise design and development, Operational Area briefings, training briefings in Red Bluff, Sacramento and Clovis, Division and Department coordination and workshop, table top and functional exercise development for training and drill activities. Drills and exercises will occur later this year and early next year. The Flood Center continues to meet on a monthly basis with

the USACE emergency response managers to coordinate and review flood or high water emergency response and readiness. Over the past month, additional readiness briefings have been provided to CalEMA Executive Duty Officers and the Inland Regional Administrator.

Preseason Flood Coordination Meetings: This year's preseason meetings have been completed. Meetings were held in Ventura, Riverside, Stockton, Sacramento, Yuba City, Eureka, and the Bay Area. In addition to DWR, presenting agencies included the National Weather Service, U.S. Army Corps of Engineers, California Emergency Management Agency (Cal EMA), CALFIRE, and California Conservation Corps. In addition, the Branch will coordinate with Cal EMA to present preseason information at September MARAC meetings in locations such as Red Bluff, Fresno, and Temecula.

Inventory of deployed field storage of Flood Fight Materials: Pre-deployment containers are stocked and ready. Stored materials include: rock, sandbags, plastic sheeting, wooden stakes, twine and buttons. Additional safety gear is being purchased for Incident Command Teams and other DWR emergency response staff. Flood Fight Methods Training classes have been provided to over 1,000 people so far this year.

The Flood Operations Center has updated and published the Directory of Flood Officials and Emergency Contact Card for the upcoming flood season. Directories were mailed out in November.

The Flood Operations Center along with the National Weather Service and California Nevada River Forecast Center began hosting the Weather/Hydrology briefings twice weekly, usually Monday and Thursday. During times of increased threat and actual events the Flood Operations Center will host the briefings daily and sometimes twice a day as necessary. These briefings are run like a network news weather report and focus on the system, current events, and are available to view via the internet.

EMERGENCY RESPONSE - RELATED ELEMENTS

This element includes various efforts that will further the Departments understanding of the flood system interactions with water supply systems and conjunctive use programs. It also includes the update of the Central Valley hydrology for use in risk assessment and project development. Another component includes developing a comprehensive plan to response to flood events in the Delta.

Central Valley Hydrology Study (CVHS): The CVHS has developed a series of technical memos to provide additional detail to the analyses being conducted in the process of developing the CVHS datasets for use with FloodSAFE activities including floodplain delineation modeling. These Technical Memos have been posted to the Study information sharing forum (cvhydrology.org).

Significant accomplishments over last month include:

- Draft technical memos are complete and have been submitted to DWR. Memos have been submitted to Hydrologic Advisory Committee for review.
- USGS/Cornell/Corps have completed analysis portion of regional duration skew study. Review of manuscript by Corps is complete. Review of manuscript by USGS is nearly complete.
- Review of reservoir/hydrologic (HEC-ResSim) models for consistency with water control manuals completed. Review of models by HEC for application of best modeling practice to take place in first two weeks of November.
- Estimation of local flows is underway.
- Ungaged watershed and analysis point selection process is nearly complete.

FUNCTIONAL AREA 2 OPERATIONS AND MAINTENANCE

Operations and Maintenance is a functional area under FloodSAFE established to ensure project facilities are operated and maintained in good working condition to function as designed. Although Operation and Maintenance has been a long-standing base program within DWR, FloodSAFE has expanded the program and provided additional funding. Historically, Operation and Maintenance projects were undertaken based on a backlog of deferred maintenance. Now, in addition to continuing to work on deferred maintenance, new projects are identified through a number of inspection programs. Operation and maintenance must continue indefinitely into the future, even after the FloodSAFE functional objectives have been achieved although the needs are expected to change over time as system upgrades and modifications are implemented.

CHANNEL MAINTENANCE

DWR is responsible for maintaining channel flow capacity for Sacramento River Flood Control Project channels and for performing channel-specific maintenance activities identified in the USACE Operations and Maintenance Manuals, including channel clearance if required to maintain design flow capacity. Channel Maintenance consists of inspection and evaluation, routine operations and maintenance, and implementation of corridor management projects.

- Channel clearing and vegetation control is 70% complete for Tisdale Bypass, Colusa Bypass, Butte Creek channel and 100% complete at Furlon Property and Fremont.
- Burning debris piles in Colusa Bypass.
- Clean-up of debris, beaver dams and rodent damage, and downed vegetation is finished in Cache Creek.
- Grading of toe roads is 80% complete.
- The Sycamore Creek sediment removal project (removal of approximately 50,000 cubic yards of sediment from 4,700 feet of channel I) is nearly complete.
- The Sycamore Creek environmental restoration contract has been awarded with work anticipated to occur between March and June 2011.

FLOOD FACILITIES OPERATION AND MAINTENANCE

DWR operates, maintains, and repairs or replaces flood control structures located throughout the Sacramento River Flood Protection Project to ensure readiness in the event of emergencies and that facilities function as designed. Actions include inspection and evaluation, routine operation and maintenance, and non-routine maintenance. Facilities include pumping plants that transfer runoff and excess water from the land-side of levees in the flood system to flood channels; bridges providing access over and to flood facilities; flow gages; and water control structures such as weirs.

- The contractor for the Sutter Bypass East Borrow Canal Willow Slough Weir Fish Ladder and Culverts Replacement Project is finalizing work on constructing the new facility. Due to the late start on the construction and other issues, the project is anticipated to be complete in mid November. Construction is currently over 95% completed – all in water work is complete with the new fish ladder and culverts

operational. The contractor is currently finishing the installation of miscellaneous appurtenances and demobilizing.

- Bids for the Sutter Bypass Pumping Plant Control Systems Rehabilitation Project to modernize the motor controls were opened on November 3rd.
- Advertisement of the construction contract for the replacement of Sutter Bypass East Borrow Canal Weir 2 Replacement has been delayed.
- An underwater dive inspection to assess the structural condition of the old Sutter Bypass pumping plant gravity culverts was completed on November 10th. In addition, two velocity meters were installed at Pumping Plants 1 and 3 to monitor flows through the culverts to determine if the culverts are potentially entrapping anadromous fish during their migration through the East Borrow Canal.
- Maintenance and debris removal activities are continuing at the Knights Landing Outfall Gates and the Butte Slough Outfall Gates.
- Minor repairs to the concrete structure (60% complete) and wooden stop logs (100 % complete) at the Sacramento Weir continue.

LEEVE MAINTENANCE

This element maintains levees and roads under DWR jurisdiction (State-maintained Maintenance Areas and bypasses) in accordance with USACE Operations and Maintenance Manuals. Annually, after high water recedes, levees are evaluated and repairs are made as necessary. Routine and extraordinary maintenance are also performed as necessary to meet maintenance assurances provided to the federal government.

- Construction on the Levee Roads Rehabilitation Project is 100% complete.
- Ongoing levee maintenance activities include grading and compacting crown roadways, tree maintenance, fireguarding, replacing/repairing gates, and rodent control.

ENVIRONMENTAL INITIATIVES

DWR is responsible for planning projects in a way that avoids or minimizes environmental impacts, and for obtaining state and federal environmental permits and clearances for projects within the Operations and Maintenance Functional Area. Environmental Initiatives touches all aspects of this functional area and therefore is considered a close partner to the other maintenance elements and their activities. As such, it should be considered a part of each of the other major elements rather than a stand-alone element. Also, with DWR's established open collaborative process, various local, state, and federal agencies examine issues and develop integrated solutions to the complex environmental compliance requirements and resource opportunities as flood control maintenance activities are undertaken. Components include developing and managing environmental programs, and managing mitigation requirements for lands and habitats developed or acquired by the Department to mitigate for flood management maintenance and improvement projects.

- No new information.

LEEVE REPAIRS

The Levee Repairs Program repairs critically damaged levees and proactively repairs other damaged levees that cannot wait for system improvement projects and require rapid repair before the next flood season. Levee repair projects are implemented through collaboration with federal and state resource agencies, USACE, and local agencies. Levee repairs are done under three federal authorized programs; Sacramento River Bank Protection Project (SRBPP), Levee Stability Program (LSP), and PL84-99 Rehabilitation Assistance Program (PL84-99). In addition, the State repairs flood project levees under the Sacramento-San Joaquin Erosion Repairs Project (SSJERP).

- Levee repairs to the Sacramento River Site SAC RM 42.7 including plantings have been completed.
- All permits for RD 2064 San Joaquin Critical Erosion Site SJ RM 71.5 (2,200 lineal feet rock repair) have been obtained and the Division of Engineering is moving forward with preparation of final design, specifications, and contract documents for anticipated repair 2011.
- Supporting documents for USACE Section 408 approval of setback levees at four sites on Cache Creek (LM2.8, LM 3.4, LM 3.9 and LM 4.2) have been submitted to the CVFP Board for transmittal to the USACE.

FUNCTIONAL AREA 3 FLOODPLAIN RISK MANAGEMENT

The primary purpose of Floodplain Risk Management is to reduce loss of life and property caused by floods and to restore the natural resources and beneficial functions of floodplains by providing comprehensive guidance and technical support and assessing the floodplain management needs and issues of California communities in order to promote a comprehensive and system-wide flood management strategy.

FLOODPLAIN MANAGEMENT TECHNICAL SUPPORT

Floodplain Management Technical Support provides statewide technical support to federal, state and local agencies, and the public for flood hazard maps, levee data and National Flood Insurance Program (NFIP) activities, including the Community Rating System (CRS).

- No new information.

FLOODPLAIN EVALUATION AND DELINEATION

Floodplain Evaluation and Delineation works to estimate the frequency, depth, and limits of potential flooding throughout the state providing building blocks in terms of floodplain assessments, standards, methodologies, tools, and analyses supporting multiple applications including FloodSAFE programs and projects and FEMA's National Flood Insurance Program.

- No new information.

FLOOD RISK NOTIFICATION

The Flood Risk Notification Element focuses on communicating flood risk to the public, and local, state and federal agencies to increase flood hazard awareness for areas protected by the State Plan of Flood Control.

Responses are being prepared to the approximately 250 inquiries received regarding the Flood Risk Notification sent out in September and feedback surveys are being sent to a random 1% of the property owners that received the September notification in order to ascertain reactions to the notification.

FLOOD RISK PLANNING

Flood Risk Planning is focused on incorporating flood risk management into statewide and local land use decision making to identify potential flood hazards and mitigation strategies to reduce flood risks through creating planning approaches and data sets that help agencies, communities, and individuals make better informed decisions.

DWR issued a press release about the availability of *Implementing California Flood Legislation into Local Land Use Planning: A Handbook for Local Communities* (Handbook) on October 28th. The Handbook was also presented at the American Planning Association Conference on November 3rd and the Floodplain Management

Association Annual Conference on November 4th. Both presentations had a high level of public interest and were well attended. In the first two weeks after the press release, roughly one hundred requests for CD and paper copies have been received and the need for additional copies is being coordinated with DWR Reproduction and Graphics Unit. Updating and amending the Handbook will continue as new legislatively-referenced information is developed.

FUNCTIONAL AREA 4 FLOOD PROJECTS & GRANTS

Flood Protection Projects and Grants is responsible for the State's input to project selection and funding. The program is responsible for the majority of physical improvements to the flood management system and provides grant money in the Delta and Statewide. Flood Protection Projects and Projects Grants has been a long-standing DWR base program and is expected to continue indefinitely into the future due to the ongoing need for system improvements and the long-lead time to implement federal flood control projects. The work is based on the acknowledgement that the State will continue to be a significant partner in viable flood management projects in the Central Valley, Delta, and Statewide.

CENTRAL VALLEY FLOOD PROJECTS

This element is responsible for the review of flood projects and cost-sharing on federal feasibility studies. It contains three components: Feasibility Studies, Early Implementation Program (EIP) Projects, and Flood Control Projects.

USACE/CVFPB FEASIBILITY STUDIES

The State participates and provides cost-share for feasibility studies with USACE and local partners. Several studies are underway and new ones are expected in the near future.

American River Common Features GRR

This study will provide flood improvements for lower American River downstream of the Folsom Dam, Sacramento River downstream of Natomas Cross Canal, and the Natomas Cross Canal to a 200-year level of flood protection. The Post Authorization Change Report (PACR) evaluates alternative plans for the levee system around the Natomas Basin and acts as an interim general reevaluation study to the GRR.

- The PACR was approved to move forward at the Civil Works Review Board.
- The final Environmental Impact Study/Environmental Impact Report (EIS/EIR) was posted for public review October 22, 2010 and will close November 22, 2010.
- The National Marines Fisheries Service issued a letter of concurrence on October 26, 2010, for the proposed project within the PACR stating there were no further comments from NMFS.
- The Chief's report for the PACR is scheduled to be completed December 31, 2010.

Frazier Creek Feasibility Study

This study will generate an EIS/EIR and feasibility study to evaluate federal, State, and local interests in planning, designing, mitigating, and improving existing levee system of Frazier Creek/Strathmore Creek in Tulare County.

- USACE is finalizing the Reconnaissance Study and the Project Management Plan is 40% complete.

Lower San Joaquin River Feasibility Study

Representatives from San Joaquin County, San Joaquin Area Flood Control Agency (SJAFCA), the Board, USACE, and other local interests have worked together to prepare a Project Management Plan (PMP), a draft amendment to the Feasibility Cost-Sharing Agreement (FCSA), and a draft Local Feasibility Cost-Sharing

Agreement (LFCSA). The cost estimate for the study is \$10.6 million with a project completion date of 2016.

- The project schedule and budget are being revised to reflect changes in requirements due to the preliminary focused study and also to reflect refinements to the USACE capabilities through project completion. An executive meeting will be scheduled in November to discuss the revisions.
- The Project Development Team (PDT) is currently updating the scope, schedule and budget for the PMP. Currently it appears that the study cost will be rising due in part to the preliminary focused study and updated project costs.

Merced County Steams Project-Bear Creek GRR

This project's purpose is to evaluate options to increase the level of flood protection from a 50-year event to 200-year event for the Merced Urban Area.

- No new information.

Rock Creek/Keefer Slough Feasibility Study

This study will generate an EIS/EIR and feasibility study to evaluate federal, State, and local interests in planning, designing, mitigating, and improving existing levee systems of White River and Deer Creek in Butte County.

- USACE has scheduled a January 2011 meeting with local sponsors to discuss the Reconnaissance Report, funding, PMP, and FCSA.

Sutter Basin Feasibility Study

This multipurpose study aims to address levee improvement measures for existing levee systems as well as environmental restoration and recreation opportunities.

- Amendment No. 1 was sent to DGS/OLS from the Contracts Office on October 13, 2010 for review and approval.
- After DGS approves Amendment No. 1, the Budget Office will be contacted to schedule payments to USACE.
- USACE is requesting \$785,000 now, followed by \$85,000 in the 2nd quarter of 2011.
- USACE estimates \$339,000 for FY10/11; PDT meetings will now consist of only essential members.
- A Schedule and Cost Change Request (SACCR) is being discussed at PDT meetings and will be drafted once budget and schedule are determined.
- EIP project kickoff meetings have begun for the Feather River West Levee.

West Sacramento GRR

The General Reevaluation Report (GRR) is being conducted to study future work necessary to provide a minimum of 200-year level of protection for the City of West Sacramento.

- Project received hydrology certification for without-project conditions on October 19, 2010.
- All disciplines are on schedule for reaching the USACE F3 milestone in April 2011. Pre-meeting documentation will undergo Independent Technical Review (ITR).
- Draft interior drainage report released by HDR this month for review by USACE.

West Stanislaus County - Orestimba Creek Feasibility Study

This study will evaluate feasible flood protection alternatives for the City of Newman and the surrounding agricultural areas to achieve a 200-year level of flood protection.

- USACE and the County are currently moving forward with geotechnical analysis needed along the Central California Irrigation District while the State is processing additional funds for the completion of the study. The project is scheduled to be completed in September 2011.

White River/Deer Creek Feasibility Study

This study will generate an EIS/EIR and feasibility study to evaluate federal, State, and local interests in planning, designing, mitigating, and improving existing levee system of White River and Deer Creek in Tulare County.

- USACE is finalizing the Reconnaissance Study and the Project Management Plan is 40% complete.

Woodland/Lower Cache Creek Feasibility Study

USACE will develop alternatives for a new feasibility study to determine if there is a National Economic Development (NED) plan that is federally justified. The study will continue efforts suspended in 2004 after local resistance to the USACE-selected Flood Barrier Option alternative. USACE estimates that the new feasibility study will be complete in 2017 with design of a selected alternative to commence in 2017.

- Signed Financial Self-Certification emailed to USACE on September 22, 2010.
- FCSA and LFCSA will be presented to the Board in early December.
- Meeting hosted by FloodSAFE Yolo on October 26, 2010 included Congressman Herger and Colonel Leady (USACE). DWR and the Board were well represented. FloodSAFE Yolo representatives discussed the project and the settling basin before a short field trip to the settling basin. After the field trip, the attendees discussed the project, the difficulties that it presented, and possible solutions.

Yuba River Basin Project GRR

The Yuba River Basin Project consists of increasing the level of flood protection in the Yuba River Basin communities of Marysville, Linda, Olivehurst, and Arboga.

- Department of General Services is processing Design Agreement Amendment 2.
- Contract Services is processing a \$385,000 second installment payment on USACE's \$600,000 invoice.
- Chapters 1-8 of the Draft Alternative Formulation Briefing Report have been released for review. Staff and YCWA staff will meet to review and comment on the released chapters.

EARLY IMPLEMENTATION PROGRAM (EIP) PROJECTS

EIP includes projects that are ready to proceed in advance of the CVFPP. An element of approval for these projects ensures that they do not eliminate opportunities or prejudice the flood risk reduction alternatives that would provide regional or systemwide benefits.

Reclamation District 2103 - Bear River Levee Improvement (RD-2103)

Working on project closeout.

Levee District 1 - Setback Levee at Starbend Feather River (LD-1)

Working on project closeout.

Reclamation District 17 - 100-Year Seepage Area Project (RD-17)

Staff is currently in the process of reviewing and replying to materials recently received from RD-17.

Three Rivers Levee Improvement Authority – Feather River (TRLIA-FR)

No new information.

Three Rivers Levee Improvement Authority - Upper Yuba River (TRLIA-YR)

TRLIA received the Upper Yuba Construction Bid results from Simpson Lane to Gold Fields. The lowest bidder was a little over \$7.5 Million. TRLIA will not make the award until USCAE completes their approval of the 408 authorization and 104 credit approval. Per the bid documents, the contractor's bid is good until March 31, 2011.

Sacramento Area Flood Control Agency - Natomas Cross Canal (SAFCA-NCC)

No new information.

Sacramento Area Flood Control Agency - Capital Outlay (SAFCA-CO)

- From Riego Road to approximately a half mile north of Elverta Road, construction is underway on a cutoff wall just south of Riego Road.
- At Teal Bend Golf Club, contractors continue to prepare the foundation where the new adjacent levee and cutoff wall are to be constructed.

West Sacramento Area Flood Control Agency, Capital Outlay (WSAFCA-CO)

WSAFCA is coordinating with USACE in responding to various comments; however, the official response may be delayed because of DWR's and other agencies' lengthy comments on the EIR/EIS.

USACE/CVFPB PROJECTS

The State continues to participate with USACE on non-federal cost-share funding for projects to upgrade the State-federal flood management system in the Central Valley.

American River Common Features Project

The American River Common Features Project is improving the levee system along the American and Sacramento Rivers in Sacramento.

- The design for sites R-5, Jacob Lane, Reach B, and L-12 has been completed. Construction contracts for Jacob Lane, Reach B and L-12 have been awarded and construction is planned for 2010 on an accelerated schedule due to available federal stimulus money. Construction for R-5 is planned for 2011. These repairs are commonly referred to as the WRDA 1996 Remaining Sites work.
- The construction for sites R-8 and L-8 was completed on August 24, 2010, on schedule.

Folsom Dam Modifications (Joint Federal Project)

The Folsom Dam Modifications Project (Folsom Dam Joint Federal Project) provides Flood Damage Reduction and Dam Safety benefits to Sacramento.

- The lowest contractor bid for construction of the new central structure was \$128 M which was significantly lower than the construction estimate of \$240 M.

Marysville Ring Levee Improvement Project

The Marysville Ring Levee Improvement Project is a separable element of the Authorized Yuba River Basin Project. Once completed, the residents within the levees surrounding the City of Marysville will be afforded a high level of protection significantly sooner than the overall Yuba River Basin Project.

- The first segment of Phase 1 has been constructed and is currently being stabilized for the winter season.
- Design of Phase 4 is at 30 percent and is planned for construction in tandem with Phase 1, segment 2, contingent upon available federal appropriations.
- The design-development for Phase 2 and Phase 3 has been initiated for construction in 2012 and 2013, respectively.

Mid-Valley Area Levee Reconstruction Project

The Mid-Valley Reconstruction Project extends from the Tisdale Bypass to the Sacramento Bypass and includes levees on Sacramento River, Feather River, Yolo and Sutter Bypasses, and Knights Landing Ridge Cut.

- Requested expended funds data and cost projections have been provided by USACE and are under evaluation. Meetings will be scheduled with local sponsors to ascertain their intent and ability to continue their sponsorship given the significant increase in total project cost and lack of progress over the last decade.

South Sacramento Streams Project

The South Sacramento County Streams Project will increase the level of flood protection from 1-in-50-year to 1-in-200-years for the urbanized area of South Sacramento County and an area to the south and east of the City of Sacramento.

- DWR reviewed alternative designs for Morrison Creek where a Union Pacific Railroad (UPRR) encroachment permit will be required. SAFCA, USACE, and DWR are preparing design documents and materials to present at a public meeting where public input will be sought regarding the alternatives. Time and date of meeting have not been set at this point. USACE is also currently evaluating the potential need for a slurry cut-off wall in the levee.
- As part of the Limited Reevaluation Report, USACE has begun the Hydrology and Hydraulics study for the South Sacramento Streams Project area. It is anticipated that the study will be completed by August 2011. USACE is also currently working on a schedule for completion of the LRR.

West Sacramento Area Project, Slip Repair

Geotechnical analysis for the repair of two Yolo Bypass east bank levee slips is complete. The design for the north slip repair site is under way at USACE. Construction of the northern site repair is currently scheduled for the 2011 construction season.

- No new information

STATEWIDE FLOOD PROGRAMS

The Statewide Flood Programs provide financial support to local entities for flood and ecosystem restoration related projects throughout the State. These programs include Flood Control Subventions Program, Flood Corridor Program, Local Levee Assistance Program, and Yuba-Feather Flood Protection Program.

FLOOD CORRIDOR PROGRAM (FCP)

The Flood Corridor Program provides local assistance grants to local governments, special districts, and non-profit organizations for flood risk reduction projects using non-structural methods. Each project must also include an ecosystem restoration or agricultural land conservation component.

- Three statewide public workshops Statewide were held for the draft Guidelines.

FLOOD CONTROL SUBVENTIONS PROGRAM (FCSP)

The Flood Control Subventions Program provides financial assistance to local agencies cooperating in the construction of federally authorized flood control projects outside of Central Valley and State Plan of Flood Control.

- DWR is gathering information on all changes needed to update existing program guidelines.
- Three claims for \$445,000 were completed.
- Zero claims were received.
- Six claims for \$29 million are under review.
- Three completed audit payments for \$1.2 million were processed.
- 21 claim payments for \$13.4 million are pending processing.
- 50 claims for \$102 million are pending processing.

LOCAL LEVEE ASSISTANCE PROGRAM (LLAP)

LLAP provides financial assistance to local agencies to evaluate and perform urgent repair on their flood control facilities outside of Central Valley and State Plan of Flood Control.

- The Decision Memo and Amendment 1 to Klamath Glen LOLE were signed and executed to extend the contract to January 31, 2012.
- A Decision Memo was drafted for Contra Costa County LOLE. A formal request from the County for amendment is anticipated before the memo is submitted to management.
- San Bernardino LOLE invoice No. 1 was reviewed and changes were requested by LLAP Project Manager.

- The Project Manager assisted in the creation of a reimbursement invoice for the Kern River LOLE, City of Bakersfield project.
- Project Charters and Status Reports were completed and updated for all LLAP projects.
- A Project Timeline bar chart was completed for the LLAP program.
- Release of retention to Orange County is still pending at the Budget Office. The project final report was submitted and reviewed. A closeout letter has been prepared and is waiting to go out.
- A draft checklist for assessing LOLEs was completed.
- A draft checklist for Quarterly Report Review was updated.

YUBA-FEATHER FLOOD PROTECTION PROGRAM (YFFPP)

YFFPP provides Proposition 13 financial assistance to local entities demonstrating non-structural flood management projects showing a potential significant reduction of peak flood flows, flood stage, flood risk (including wildlife habitat enhancement and/or agricultural land preservation) on the Yuba and Feather Rivers.

- A Project Timeline bar chart was completed by the YFFPP program.
- All Binders and electronic files are complete for YFFPP projects except for the YCWA feasibility study contract which is considered on-going until the remaining invoice (for \$9,666.91) has been approved for payment or a new amendment is executed to complete funding reimbursement.
- Invoice No. 22 for \$85,921.97 for YCWA (FCO Design) was prepared and approved for processing by Accounting.
- SAP payment history check for Levee District No.1 Agreements was completed. Three project closeout letters were sent to LD 1.
- YFFPP Projects Summary binder providing brief summary of each project is near completion.
- Comments were received from Sutter County and SBFCA regarding indemnification issues for reimbursement of local share agreement (committing up to \$650,000 for Sutter Basin Feasibility Study). Revisions were made to enable DWR to enter an Agreement with both Sutter County and SBFCA. The revised Agreement is currently pending review by Sutter County and SBFCA.
- Fund Center Assignment (Form 1498) for \$230,357 was prepared for the Real Estate Branch to provide land acquisition services for Bear River Setback Levee.
- Second invoice for \$26,259.19 for Sutter County Feasibility Study was approved for payment.

PROGRAM SUPPORT

The program support function is designed to ensure the various programs and their projects receive sufficient technical and administrative support to be successful. These support functions are Grant Guidelines, Environmental Services, Technical Assistance, and Federal Coordination.

GRANT GUIDELINES

EIP, FCP, LLAP, and FCSP are all in process of finalizing their program guidelines.

- EIP staff is routing Final Guidelines for director approval to release to the public. Final Guidelines and a Project Solicitation Proposal are anticipated to be released to the public in December. Staff has also finalized standard project closeout requirements as four EIP projects are currently in the closeout phase. Staff is working on developing a standard scheduling/tracking process for the upcoming applications.
- The FCP draft funding Guidelines were released for public review. Three public workshops were held Statewide. Based on comments during the public review, changes may be incorporated into the final Guidelines.
- LLAP Guidelines are being revised. A new Project Solicitation Proposal is planned to be posted in early 2011 for about \$50 million in new grant/funding.
- YFFPP Guidelines for a new Project Solicitation Proposal is drafted and is pending final determination of available funds.

ENVIRONMENTAL SERVICES

FCP has a number of environmental resources that provide technical assistance to various FPO projects.

- No new information.

TECHNICAL ASSISTANCE

LLAP has resources to provide technical assistance in flood modeling, GIS, technical consultation, design criteria development, and databases to various programs in FPO.

- A draft Decision Memo was created and given to management for approval of the Cost-Sharing Formulas document.
- The third and final Environmental Workshop for engineers was held Oct 6th.
- Developed and maintained GIS information to assist in the FY 2011 project development budget item preparation.
- Staff represented DWR on an agency panel providing quality control, revision recommendations and approval on flood protection structure construction design plans, specifications and economic estimations submitted by water resources consultants.

DELTA FLOOD PROJECTS

This is a grants program that works with more than 60 reclamation districts in the Delta and Suisun Marsh to maintain and improve the flood control system and provide protection to public and private investments in the Delta including water supply, habitat, and wildlife. The program, through its two major components; Delta Levees Maintenance Subventions Program and Delta Levees Special Flood Control Projects, works with the local agencies to maintain, plan and complete levee rehabilitation projects. One of the requirements to qualify for available funds is the project to result in no net loss of habitat in the Delta. Additional responsibilities under the Bay-Delta Levees Branch are in support of the levee system and habitat development; improve the flood fight capability of the Delta through planning, cooperative efforts, encouraging the development of emergency response plans for each Delta island, and conduct studies and contract efforts necessary for program purposes.

DELTA LEVEES MAINTENANCE SUBVENTIONS PROGRAM

DWR, on behalf of the Central Valley Flood Protection Board, initiates and manages work agreements to fund levee maintenance and rehabilitation. To date, the status of work agreements is:

Work Agreements for FY 2009-2010

- DWR staff has received 31 final claims from local agencies totaling approximately \$6.4 million.
- A deadline extension was granted to 35 local agencies giving them until November 30, 2010 to submit their final claims.

Work Agreements for FY 2010-2011

- No new information.

DELTA LEVEES SPECIAL FLOOD CONTROL PROJECTS

DWR initiates and manages project funding agreements in support of local agencies' levee rehabilitation, habitat, or other projects. DWR is executing agreements authorizing the work proposed under Project Solicitation Packages.

- Project Funding Agreements have been drafted for projects approved under the Levee Improvement and Rehabilitation Projects Solicitation Package and are currently being reviewed.
- A Decision Memo approving three projects under the Habitat Enhancement and Restoration Projects Solicitation Package has been signed by Director Cowin.
- More and current information can be found at:
<http://www.water.ca.gov/floodmgmt/dsmo/bdlb/spp/>

FUNCTIONAL AREA 5 EVALUATION & ENGINEERING

Evaluation & Engineering is a FloodSAFE Functional Area established to address assessments of existing flood management facilities to identify deficiencies and needed improvements. This is a new Functional Area that is expected to continue after the FloodSAFE foundational objectives are met. Functional Area activities are performed in partnership with the USACE, which prior to FloodSAFE, conducted most evaluations and engineering for existing facilities. This Functional Area is based on the acknowledgement that changing conditions, new knowledge about system performance, and eventual facility deterioration will demand continued evaluation and engineering services.

URBAN LEVEE EVALUATION (ULE)

DWR is required to evaluate the current level of performance of the State-federal flood protection system in the Central Valley. Urban levees are levees that provide protection to developed areas with a population of at least 10,000 people. The evaluation of current urban levee performance is to include an estimate of the risk of levee failure, a discussion of the inspection and reviews performed, and recommendations regarding the levees and future work activities. The geotechnical engineering being performed will help flood managers understand the overall flood risks to populated areas in the Central Valley and consider alternative changes to the flood management system to better manage the risks.

ULE is evaluating 470 miles of urban levees for hidden defects. The 470 miles include State-Federal project levees as well as associated non-project levees that provide protection to urban areas receiving some protection from the State-Federal flood system. Urban levees are being evaluated to determine whether they meet defined geotechnical criteria and, where needed, identify remedial measures, including cost estimates, to meet the defined geotechnical criteria. The information being developed will be used in support of the Central Valley Flood Management Planning Program to inform development of two required documents: the Flood Control System Status Report and the Central Valley Flood Protection Plan.

Geotechnical Evaluation Reports			
Study Area	% Complete	Study Area	% Complete
Chico ¹	30	NEMDC East	35
Marysville	40	Natomas	15
Sutter	35	Bear Creek	17
RD 784	40	Calaveras River	17
Davis	10	RD 404	20
Woodland	10	RD 17	40
American River	40	Stockton Non-Project	10
West Sacramento	85	W. Sac. Non-Project	4
Sacramento River	45	South Sac. Streams	3

¹ Chico PGDR has been completed.

- Overall, Urban Levee Evaluations are 63% complete.
- ULE team is developing fragility curves for 470 miles of urban project and appurtenant non-project levees in the Central Valley to support development of the CVFPP. This has slowed normal ULE progress although the final deliverable is still on schedule.

NON-URBAN LEVEE EVALUATION (NULE)

DWR is required to evaluate the current level of performance of the State-federal flood protection system in the Central Valley. Non-urban levees are levees that provide protection to agricultural areas and developed areas with a population of less than 10,000 people. The evaluation of current system performance is to include an estimate of the risk of levee failure, a discussion of the inspection and reviews performed, and recommendations regarding the levees and future work activities. The geotechnical engineering being performed will help flood managers understand the overall flood risks to populated areas in the Central Valley and consider alternative changes to the flood management system to better manage the risks.

NULE is evaluating 1,620 miles of non-urban levees for hidden defects. The non-urban levees being evaluated include State-Federal project levees and associated non-project levees that also provide protection to non-urban areas receiving some protection from the State-Federal flood protection system. Non-urban levees are being evaluated to determine whether they meet defined geotechnical criteria and, where needed, identify remedial measures, including cost estimates, to achieve the defined geotechnical criteria.

The information being developed will be used in support of the Central Valley Flood Management Planning Program to inform development of two required documents: the Flood Control System Status Report and the Central Valley Flood Protection Plan.

- Overall, Non-Urban Levee Evaluations are 35% complete.
- NULE is developing fragility curves for 1620 miles of non-urban project levees in the Central Valley to support development of the CVFPP. This has slowed normal NULE progress although the final deliverable is still on schedule.

TECHNICAL REVIEW

Geotechnical analyses are being conducting on behalf of the CVFPB on an “as-needed” basis and to support proposed and ongoing capital improvement projects. Collaboration with the USACE is occurring with on-going geotechnical studies, including review of associated documents that may impact the CVFPP.

No new information.

TECHNICAL POLICY

A statewide seismic policy is being developed for levee performance, emergency levee remediation, and long-term levee remediation. Interim Levee Design Criteria are also being developed to guide local urban levee improvement projects. Research is being conducted to resolve gaps in knowledge associated with the effects that woody vegetation growing on or near levees has on levee integrity; and provide technical support for the development of vegetation management policies as part of the CVFPP.

No new information.

FUNCTIONAL AREA 6 FLOOD MANAGEMENT PLANNING AND CONSERVATION STRATEGY

The Flood Management Planning and Conservation Strategy Functional Area refer to the planning and analysis necessary to evaluate flood systems as complete systems consistent with the intent of the FloodSAFE Implementation Plan rather than a set of individual, isolated projects. This functional area consists of three elements: Central Valley Flood Management Planning (CVFMP) Program, Statewide Integrated Flood Management Planning, and Conservation Strategies.

CENTRAL VALLEY FLOOD MANAGEMENT PLANNING (CVFMP)

The CVFMP Program is one of several programs being managed within FloodSAFE California. The CVFMP Program addresses most of the flood-related planning activities that were authorized by the Legislature during the 2007/2008 session within much of the Central Valley. The CVFMP Program consists of two primary projects – State Plan of Flood Control (SPFC) and the Central Valley Flood Protection Plan (CVFPP).

STATE PLAN of FLOOD CONTROL (SPFC)

The SPFC includes two major deliverables: (1) SPFC Descriptive Document and (2) Flood Control Systems Status Report (FCSSR).

SPFC Descriptive Document (SPFC DD)

The SPFC DD is an inventory and description of the State-federal flood protection system in the Central Valley.

- The 2010 Descriptive Document is scheduled for release at the end of November.

Flood Control System Status Report (FCSSR)

The FCSSR will describe a number of factors associated with current status of the SPFC and recommendations of future work activities.

- The report is being revised in response to comments received on the Internal Policy Review Draft that was distributed to key DWR staff in mid September.
- The Final Policy Review Draft is anticipated to be complete in early 2011.

SPFC History Report

The SPFC History Report is being prepared to inform a non-technical audience on the evolution of the SPFC.

- A public draft of the history report is expected to be released in early 2011.

CENTRAL VALLEY FLOOD PROTECTION PLAN (CVFPP)

The CVFPP reflects a system-wide approach to protecting lands currently protected from flooding by the SPFC. The initial plan is to be completed by January 1, 2012, and updated every five years thereafter.

Planning Activities

- Phase 2 of the 2012 CVFPP is scheduled for completion in December of 2010. This phase focuses on developing management actions that contribute to the goals identified in Phase 1.

- Phase 3 of the 2012 CVFPP will focus on developing regional solutions by identifying regional priorities and combining retained Phase 2 management actions to address those priorities. Meeting materials and evaluation methods for use in Phase 3 are currently being developed.
- The Programmatic EIR (PEIR) for the CVFPP will include an Environmental Justice discussion consistent with California Natural Resources Agency Environmental Justice Policy.
- A Notice-of-Preparation was filed with the State Clearinghouse on October 27th and comments will be accepted until November 26, 2010.
- Scoping meetings for Phase 3 were held on November 15th (Chico), November 16th (Sacramento) and November 18th (Modesto), 2010.
- A Progress Report on the 2012 CVFPP (California Water Code §9610(c)) is scheduled for posting to the Board's website in December.

CVFPP Communication and Engagement

- The final meetings (meeting 3 of 3) for each of the five Phase 2 Regional Management Actions Work Groups were held on November 9, 10, and 17.
- A Valley-wide Forum is scheduled for December 9, 2010.

STATEWIDE INTEGRATED FLOOD MANAGEMENT PLANNING

The Statewide Integrated Flood Management Planning Program (SFMP) will assess the flood risk to life and property statewide, and develop and guide the state's flood risk management strategic policies and investment decisions. The program will inventory existing and future flood management needs in the state's regions, identify opportunities for integrated flood management, and formulate potential integrated flood management solutions. The major work product is a report titled "Recommendations for Improving and Sustaining Integrated Flood Management in California" (Recommendations Report). In addition, SFMP includes integration of flood-related information into the California Water Plan.

RECOMMENDATIONS REPORT

The Recommendations Report Framework is being developed that will identify the goals, objectives, milestones, and concepts of each of the major work products necessary to produce the Recommendations Report.

FLOOD IN CALIFORNIA WATER PLAN

Integration of flood management and water planning has been identified as an objective for California Water Plan 2013. Ideas for a future flood caucus were discussed at the November 2010 Public Advisory Committee meeting.

CONSERVATION STRATEGIES

The Conservation Strategies Element is designed to provide support and integrate environmental stewardship into the CVFMP Program. Therefore, major progress, such as the status of key documents, progress on major milestones, and upcoming events, is described under the Central Valley Flood Management Planning section above.

REGIONAL CONSERVATION PLANNING

Vegetation Obligations

- Coordination with DFM Flood Inspections to clarify inspection standards and determine management actions and potential mitigation for trees that have been identified as non-compliant with inspection visibility and accessibility criteria is occurring.
- The development of a mitigation strategy for elderberry plants located on levees is being coordinated with the USFWS.

Regional Advanced Mitigation Planning (RAMP)

- A multi-agency presentation about RAMP was presented at the Strategic Growth Council meeting on October 21st. The Council is a cabinet level committee that meets monthly to coordinate the activities of state agencies and to provide guidance on how communities and related-infrastructure can grow strategically (<http://www.sgc.ca.gov/>). The Council expressed support for continuing to develop the RAMP approach.
- The Statewide Framework for RAMP is 80% complete. This framework clarifies problems to be solved, benefits of a RAMP approach, key components of mitigation planning, options for addressing key regulatory issues, funding, and guidance for developing more specific regional plans. Once completed, a more specific regional pilot plan within the central Sacramento Valley will be developed.
- Regulatory agencies working with the High Speed Rail Authority in the Central Valley have expressed interest in collaborating on using RAMP in the San Joaquin Valley and discussions are underway to assess potential collaboration on mitigation planning.

Corridor Management Planning

- Use of the Corridor Management Strategy approach is being promoted to other parts of the Central Valley flood management system.

SCIENTIFIC AND PLANNING INFORMATION

Baseline biological and ecological information are being developed for the Conservation Strategy and to support the CVFPP and associated CEQA document. The first seamless medium-scale map of vegetation within the CVFPP Planning area is approximately 30% complete. This medium-scale map will provide an initial, system-wide assessment of the distribution of riparian and other habitats. In addition, a longer-term, higher-resolution map is being initiated that is more suitable for project-level planning. Over 350 existing biological wildlife surveys and population studies in the CVFPP Planning area have been catalogued. This inventory, when completely analyzed and integrated with existing databases, will provide information about the distribution of important species.

Conservation objectives from 12 regional conservation planning efforts that overlap the CVFPP Planning Area have been compiled. This information will help ensure coordination to reduce potential conflicts with existing conservation planning efforts.

FUNCTIONAL AREA 7 LEGISLATION, BUDGETS, AND COMMUNICATION

The primary goal of the Legislation, Budget, and Communication functional area is to facilitate legislation, budget, and communication matters to aid the efficient work of all functional areas in improving flood safety. This functional area will work to secure sustainable funding to implement the FloodSAFE initiative and to secure legislative support for all other functional areas that must continue indefinitely into the future. It is also responsible for coordination and public outreach consistency.

COMMUNICATION AND BRIEFING MATERIALS

While each functional area will conduct some of its own coordination and outreach on individual programs, the Communication element of area 7 provides assistance and support to ensure consistency. Communications and coordination take place internally, as well as externally with partner agencies on various aspects of the FloodSAFE program; including status updates, achievements and accomplishments, and upcoming milestones, with frequency ranging from weeks to years.

- Volume 1, Issue 5, of the FloodSAFE Focus newsletter was completed and placed on the FloodSAFE web page for electronic distribution to members of the FloodSAFE email distribution list. This issue focused on the Marysville Ring Levee Project.
- DWR set up a FloodSAFE Initiative information display at the annual California State Association of Counties (CSAC) held in Riverside County on November 16-17 to raise awareness of the FloodSAFE activities with county governments.
- CVFPP CEQA Programmatic Environmental Impact Report (PEIR) public scoping meetings were held in Chico (Nov 15), Sacramento (Nov 16), and Modesto (Nov 18).
- DWR managers attended the National Committee on Levee Safety meeting at the Rancho Cordova Marriott on October 27th. The meetings included a public meeting and smaller, non-public committee meetings.

FUNDING ADVOCACY & AGENCIES' ALIGNMENT

Effective coordination between State, federal, and local agencies will be required at all stages from project concept through completion of construction. FloodSAFE implementation will not be possible without federal funding. Proposition 1E requires that the State secure the maximum feasible amounts of federal and local matching funds. This group will, in coordination with DWR Executive Office, serve as the primary State advocate for securing the necessary federal funding. Primary federal partners also include USACE and FEMA.

- A FloodSAFE Federal Advocacy Team travelled to Washington D. C. on October 11th to meet with staff from the Office of Management Budget, USACE, Council on Environmental Quality, and various Congressional offices to discuss FY 2011 and 2012 federal funding needs for critical cost shared flood control projects. This trip was part of ongoing efforts to support federal appropriations to USACE as well as legislative reforms that would permit crediting and reimbursement when Central Valley non-federal interests fund critical flood control projects ahead of the federal

government. The team also addressed challenges the Department is facing with the USACE vegetation policy.

- DWR & CVFPB met with the USACE on October 28th at the quarterly USACE/DWR/CVFPB Delta Leadership meeting to coordinate related Delta planning and implementation activities.
- Gary Bardini briefed the Delta Stewardship Council on November 5th about DWR's long-term recovery plans following a distribution to water supply operations in the Delta following a large-scale flood or drought emergency.
- DWR Regional Coordinators updated the Sutter-Butte Flood Control Agency about the FloodSAFE initiative on November 10th. The FloodSAFE engagement team last briefed SBFCA in 2009.
- DWR managers met with FEMA and the USACE to discuss coordination on mapping and flood risk education and outreach efforts on November 10th.
- DWR Regional Coordinators provided new FloodSAFE overview briefings to the following local agencies and county governments:

Date	Agency / Government
Oct 26	Madera County Board of Supervisors
Oct 28	Sutter County Local Agency Formation Commission staff
Nov 1	Butte County staff
Nov 15	Yolo County Water Resources Agency
Nov 17	San Joaquin County Board of Supervisors & San Joaquin County Advisory Water Commission

LEGISLATION LIAISON & LEGAL

The Legislature is a key player in the implementation of the FloodSAFE initiative. Effective communication and reporting of plans and progress will aid the Legislature in funding flood management activities and with direction for future implementation. This element will also address legal issues that need to be resolved for progression of the FloodSAFE initiative.

- No new information.

PROGRAM MANAGEMENT, BUDGET, & FISCAL SERVICES

DWR is accountable for efficient management and expenditure of State funds. Preparing bond budgets and tracking of bond expenditures is essential to document investments of taxpayer dollars. This element provides overall management support to the other functional areas, including program management activities, strategic and implementation plans, detailed budget preparation, and contracts, funds and invoice tracking.

- No new information.

FLOODSAFE PROGRAM ADMINISTRATION & COORDINATION SERVICES

This element includes all administrative and coordination work required for FloodSAFE implementation, including human resources activities, policy document review, and FloodSAFE governance activities, including managing working groups and coordination teams within DFM and DWR.

- No new information.